Journal of CELL SCIENCE

VOLUME 73, 1985

Editors:

A. V. GRIMSTONE
HENRY HARRIS
R. T. JOHNSON

Editorial Board:

W. B. AMOS
M. D. BENNETT
D. BRAY
G. M. W. COOK
V. DEFENDI
H. G. DICKINSON
G. A. DUNN
D. R. GARROD
G. GERISCH
I. R. GIBBONS
D. M. GLOVER
S. GORDON
B. E. S. GUNNING
R. A. LASKEY
H. C. MACGREGOR
C. J. MARSHALL
J. C. METCALFE
R. B. NICKLAS
J. D. PITTS
N. J. SEVERS
L. SIMINOVITCH
D. C. SMITH
J. TAYLOR-PAPADIMITRIOU

Published by

THE COMPANY OF BIOLOGISTS LIMITED

CAMBRIDGE

Printed and Published by The Company of Biologists Ltd
Department of Zoology, University of Cambridge, Downing Street
Cambridge CB2 3EJ

© The Company of Biologists Limited 1985

CONTENTS VOLUME 73 FEBRUARY 1985

page 1 DE GROOT, E. J. and SCHWEIGER, H.-G. Regulation of a ribonucleoside reductase during the early generative phase in *Acetabularia*

7 DE GROOT, E. J. and SCHWEIGER, H.-G. Enzyme ribonucleoside reduction at the non-phosphorylated level in *Acetabularia*

19 YOUNG, W. C. and HERMAN, I. M. Extracellular matrix modulation of endothelial cell shape and motility following injury *in vitro*

33 HENDERSON, W. R. and CHI, E. Y. Ultrastructural characterization and morphometric analysis of human eosinophil degranulation

49 GERISCH, G., WEINHART, U., BERTHOLDT, G., CLAVIEZ, M. and STADLER, J. Incomplete contact site A glycoprotein in HL220, a modB mutant of *Dictyostelium discoideum*

69 WOLFE, J. Cytoskeletal reorganization and plasma membrane fusion in conjugating *Tetrahymena*

87 HERRMANN, H., ABERER, W., MAJDIC, O., SCHULER, G. and WICHE, G. Monoclonal antibody of a 43 000 M_r surface protein of a human leukaemia cell line (THP-1) crossreacts with the fibroblast intermediate filament protein vimentin

105 HEMBRY, R. M., MURPHY, G. and REYNOLDS, J. J. Immunolocalization of tissue inhibitor of metalloproteinases (TIMP) in human cells: characterization and use of a specific antiserum

121 MARASCO, W. A., WARD, P. A., FELTNER, D. E. and VARANI, J. Chemotactic factor binding by metastatic tumour cells: evidence for a formyl-peptide receptor on a non-myelogenous cell

135 HESLOP-HARRISON, J. and HESLOP-HARRISON, Y. Germination of stress-tolerant *Eucalyptus* pollen

159 MULLINGER, A. M. and JOHNSON, R. T. Manipulating chromosome structure and metaphase status with ultraviolet light and repair synthesis inhibitors

187 TAMIR, H., PAYETTE, R. F., HUANG, Y. L., LIU, K. P. and GERSHON, M. D. Human serotonectin: a blood glycoprotein that binds serotonin and is associated with platelets and white blood cells

207 TANAKA, K., KANBE, T. and KUROIWA, T. Three-dimensional behaviour of mitochondria during cell division and germ tube formation in the dimorphic yeast *Candida albicans*

221 SCHOR, S. L., SCHOR, A. M., RUSHTON, G. and SMITH, L. Adult, foetal and transformed fibroblasts display different migratory phenotypes on collagen gels: evidence for an isoformic transition during foetal development

235 SCHOR, S. L., SCHOR, A. M., DURNING, P. and RUSHTON, G. Skin fibroblasts obtained from cancer patients display foetal-like migratory behaviour on collagen gels

245 JEPPESEN, P. and MORTEN, H. Effects of sulphydryl reagents on the structure of dehistonized metaphase chromosomes

261 KALLENBACH, R. J. Ultrastructural analysis of the initiation and development of cytasters in sea-urchin eggs

279 MITCHELL, E. J. and ZIMMERMAN, A. M. Biochemical evidence for the presence of an actin protein in *Tetrahymena pyriformis*

299 HYAMS, J. S. Binding of *Tetrahymena* dynein to axonemes of *Marsilea vestita* lacking the outer dynein arm

311 MURAKAMI, K. and TANABE, K. An antigen of *Plasmodium yoelii* that translocates into the mouse erythrocyte membrane upon entry into the host cell

321 EDWARDS, P. A. W., SKILTON, R. A., PAYNE, A. W. R. and ORMEROD, M. G. Antigenic heterogeneity of breast cell lines detected by monoclonal antibodies and its relationship with the cell cycle

335 GILBERT, M. and FULTON, A. B. The specificity and stability of the Triton-extracted cytoskeletal framework of gerbil fibroma cells

347 CATT, J. W. and HARRISON, F. L. Selective association of an endogenous lectin with connective tissues

361 ENGSTRÖM, W., REES, A. R. and HEATH, J. K. Proliferation of a human embryonal carcinoma-derived cell line in serum-free medium: inter-relationship between growth factor requirements and membrane receptor expression

375 LARSSON, O., ZETTERBERG, A. and ENGSTRÖM, W. Cell-cycle-specific induction of quiescence achieved by limited inhibition of protein synthesis: counteractive effect of addition of purified growth factors

389 FREIBURG, M. Isolation and characterization of macronuclei of *Paramecium caudatum* infected with the macronucleus-specific bacterium *Holospora obtusa*

399 EYAL-GILADI, H., FEINSTEIN, N., FRIEDLANDER, M. and RAVEH, D. Glycogen metabolism and the nuclear envelope–annulate lamella system in the early chick embryo